CLAIMS

1. A time-data transmitting apparatus comprising:

a transmission-demand signal receiving portion (37) which receives a weak-wave transmission-demand signal; and

a transmission control portion (38,39) which transmits a radio wave containing time data, at a predetermined time at a first intensity, and a radio wave containing the time data, at a second intensity lower than the first intensity, when the transmission-demand signal receiving portion (37) receives the weak-wave transmission-demand signal.

2. The time-data transmitting apparatus according to claim 1, wherein the transmission control portion (38,39) transmits the radio wave containing the time data, at the second intensity, for a predetermined time.

3. The time-data transmitting apparatus according to claim 1, further having:

a time-measuring portion (36) which measures the current time data;

a radio-wave receiving portion (37) which receives a standard-time radio wave signal containing time data; and

a time-correcting portion (31) which corrects the current time data measured by the time-measuring portion (36), on the basis of the time data contained in the standard-time radio wave signal received by the radio-wave receiving portion (37),

wherein the transmission control portion (38,39) transmits radio wave that contains the time data based on the current time data measured by the time-measuring portion (36).

4. The time-data transmitting apparatus according to claim 1, wherein the weak-wave transmission-demand signal is a signal transmitted from a wristwatch (50b).

5. The time-data transmitting apparatus according to claim 1, wherein the time data contained in the radio wave represents time in minimum units of minutes.

6. The time-data transmitting apparatus according to claim 1, wherein the predetermined time is a one-minute interval.

7. The time-data transmitting apparatus according to claim 3, wherein the radio wave transmitted from the transmission control portion (38,39) is of the same frequency and same format as the standard-time radio wave signal.

8. The time-data transmitting apparatus according to claim 3, wherein the radio wave transmitted from the transmission control portion (38,39) is of a frequency and format, at least one of which differs from that of the standard-time radio wave signal.

9. A time-data transmitting apparatus comprising:

an external operation switch (32); and

a transmission control portion (38,39) which transmits a radio wave containing time data, at a predetermined time at a first intensity, and a radio wave containing the time data, at a second intensity lower than the first intensity, when the external operation switch (32) is operated.

10. The time-data transmitting apparatus according to claim 9, wherein the transmission control portion (38,39) transmits the radio wave containing the time data, at the second

intensity, for a predetermined time.

11. The time-data transmitting apparatus according to claim 9, further having:

a time-measuring portion (36) which measures the current time data;

a standard radio-wave receiving portion (37) which receives a standard-time radio wave signal containing time data; and

a time-correcting portion (31) which corrects the current time data measured by the time-measuring portion (36), on the basis of the time data contained in the standard-time radio wave signal received by the standard radio-wave receiving portion (37),

wherein the transmission control portion (38,39) transmits radio wave that contains the time data based on the current time data measured by the time-measuring portion (36).

12. The time-data transmitting apparatus according to claim 9, wherein the time data contained in the radio wave represents time in minimum units of minutes.

13. The time-data transmitting apparatus according to claim 9, wherein the predetermined time is a one-minute interval.

14. The time-data transmitting apparatus according to claim 11, wherein the radio wave transmitted from the transmission control portion (38,39) is of the same frequency and same format as the standard-time radio wave signal.

15. The time-data transmitting apparatus according to claim 11, wherein the radio wave transmitted from the transmission

control portion (38,39) is of a frequency and format, at least one of which differs from that of the standard-time radio wave signal.

16. A time-correcting system comprising:

a time-data transmitting apparatus (30) which comprises:

a transmission-demand receiving portion (37) which receives a weak-wave transmission-demand signal; and

a transmission control portion(38,39) which transmits a radio wave containing time data, at a predetermined time at a first intensity, and a radio wave containing the time data, at a second intensity lower than the first intensity, when the transmission-demand receiving portion (37) receives the weak-wave transmission-demand signal, and

a clock (50) which comprises:

a time-measuring portion (56) which measures the current time;

a transmission-demand transmitting portion (58) which transmits the weak-wave transmission-demand signal;

a wave-receiving portion (59) which receives a radio wave transmitted from the time-data transmitting apparatus (30) and containing a time code; and

a time-correcting portion (51) which corrects the time on the basis of the time data received by the wave-receiving portion (59).

17. The time-correcting system according to claim 16, wherein the transmission control portion (38,39) transmits the radio wave containing the time data, at the second intensity,

for a predetermined time.

18. The time-correcting system according to claim 16, wherein the time-data transmitting apparatus (30) further has:

a time-measuring portion (36) which measures the current time data;

a radio-wave receiving portion (37) which receives a radio wave containing time data; and

a time-correcting portion (31) which corrects the current time data measured by the time-measuring portion (36), on the basis of the time data contained in the radio wave received by the radio-wave receiving portion (37),

wherein the transmission control portion (38,39) transmits radio wave that contains the time code based on the current time data measured by the time-measuring portion (36).

19. The time-correcting system according to claim 18, wherein the clock (50) further has a standard radio-wave receiving portion (57) which receives a standard-time radio wave signal containing time data,

wherein the time-correcting portion (51) for the clock (50) further corrects the current time data measured by the time-measuring portion (56), on the basis of the time data contained in the standard-time radio wave signal received by the standard radio-wave receiving portion (57).

20. The time-correcting system according to claim 16, wherein the clock (50) comprises a band for strapping the clock on the arm of a user.